



#2

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/509,787

Source: per/10

Date Processed by STIC: 10/8/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/509,787

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ **Wrapped Nucleics
Wrapped Aminos** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 _____ **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 _____ **Misaligned Amino
Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 _____ **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 _____ **Variable Length** Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 _____ **PatentIn 2.0
"bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 _____ **Skipped Sequences
(OLD RULES)** Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) -
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 _____ **Skipped Sequences
(NEW RULES)** Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 _____ **Use of n's or Xaa's
(NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 _____ **Invalid <213>
Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 _____ **Use of <220>** Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. -
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 _____ **PatentIn 2.0
"bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 _____ **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,787

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

3 <110> APPLICANT: O'DOWD, BRIAN F.
 4 GEORGE, SUSAN R.
 6 <120> TITLE OF INVENTION: METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING
 COMPOUNDS
 8 <130> FILE REFERENCE: 3477-110
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/509,787
 C--> 11 <141> CURRENT FILING DATE: 2004-09-30
 13 <150> PRIOR APPLICATION NUMBER: US 60/371,704
 14 <151> PRIOR FILING DATE: 2002-04-12
 16 <150> PRIOR APPLICATION NUMBER: US 60/442,556
 17 <151> PRIOR FILING DATE: 2003-01-27
 19 <150> PRIOR APPLICATION NUMBER: US 60/422,891
 20 <151> PRIOR FILING DATE: 2002-11-01
 22 <150> PRIOR APPLICATION NUMBER: US 60/387,570
 23 <151> PRIOR FILING DATE: 2002-06-12
 25 <150> PRIOR APPLICATION NUMBER: US 60/379,419
 26 <151> PRIOR FILING DATE: 2002-05-13
 28 <160> NUMBER OF SEQ ID NOS: 158
 30 <170> SOFTWARE: PatentIn version 3.1
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 49
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Artificial sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: Primer
 40 <400> SEQUENCE: 1
 41 gaggactctg aacaccgaat tcgccgccat ggacgggact gggctggtg 49
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 45
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Primer
 52 <400> SEQUENCE: 2
 53 gtgtggcagg attcatctgg gtaccgcggt tgggtgctga ccggtt 45
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 51
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Artificial sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: Primer
 64 <400> SEQUENCE: 3
 65 cctaagaggg ttgaaaatct tttaaatttt ttagcattaa aggcataaat g 51
 68 <210> SEQ ID NO: 4

**Does Not Comply
 Corrected Diskette Needed**

pg 2-6

RAW SEQUENCE LISTING

DATE: 10/08/2004

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TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

69 <211> LENGTH: 48
 70 <212> TYPE: DNA
 71 <213> ORGANISM: Artificial sequence
 73 <220> FEATURE:
 74 <223> OTHER INFORMATION: Primer
 76 <400> SEQUENCE: 4
 77 gcctttaatg ctaaaaaatt taaaagattt tcaaccctct taggatgc 48
 80 <210> SEQ ID NO: 5
 81 <211> LENGTH: 19
 82 <212> TYPE: PRT
 83 <213> ORGANISM: Artificial sequence
 85 <220> FEATURE:
 86 <223> OTHER INFORMATION: Peptide insufficient explanation of Artificial Sequence
 88 <400> SEQUENCE: 5 (give source of genetic material)
 90 Asn Pro Ile Ile Tyr Ala Phe Asn Ala Asp Phe Arg Lys Ala Phe Ser
 91 1 5 10 15
 93 Thr Leu Leu
 97 <210> SEQ ID NO: 6
 98 <211> LENGTH: 19
 99 <212> TYPE: PRT
 100 <213> ORGANISM: Artificial sequence
 102 <220> FEATURE:
 103 <223> OTHER INFORMATION: Peptide same error
 105 <400> SEQUENCE: 6
 107 Asn Pro Ile Ile Tyr Ala Phe Asn Ala Lys Lys Phe Lys Arg Phe Ser
 108 1 5 10 15
 110 Thr Leu Leu
 114 <210> SEQ ID NO: 7
 115 <211> LENGTH: 27
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Artificial sequence
 119 <220> FEATURE:
 120 <223> OTHER INFORMATION: Primer
 122 <400> SEQUENCE: 7
 123 tacccttacg acgtgccgga ttacgcc 27
 126 <210> SEQ ID NO: 8
 127 <211> LENGTH: 9
 128 <212> TYPE: PRT
 129 <213> ORGANISM: Artificial sequence
 131 <220> FEATURE:
 132 <223> OTHER INFORMATION: Peptide
 134 <400> SEQUENCE: 8
 136 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
 137 1 5
 140 <210> SEQ ID NO: 9
 141 <211> LENGTH: 84
 142 <212> TYPE: DNA
 143 <213> ORGANISM: Artificial sequence
 146 <220> FEATURE:

Artificial Sequence
 (give source of
 genetic material)
 see item 11
 on Erra
 summary
 sheet

RAW SEQUENCE LISTING

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Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

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147 <223> OTHER INFORMATION: Primer
149 <400> SEQUENCE: 9
150 ggatccacta gtaacggccg ccagaccacc atgggatacc cgtacgacgt ccccgactac      60
152 gcaaggactc tgaacacctc tgcc                                           84
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Primer
163 <400> SEQUENCE: 10
164 ggccgccagc tgcgagttca ggttgggtgc tgaccg                               36
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 16
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Peptide
175 <400> SEQUENCE: 11
177 Met Arg Thr Leu Asn Thr Ser Ala Met Asp Gly Thr Gly Leu Val Val
178 1           5           10           15
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 26
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Peptide
189 <400> SEQUENCE: 12
191 Met Gly Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Arg Thr Leu Asn Thr
192 1           5           10           15
194 Ser Ala Met Asp Gly Thr Gly Leu Val Val
195           20           25
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 36
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Primer
206 <400> SEQUENCE: 13
207 ggaaagttct tttaagaaga agttcaaaag agaaac                               36
210 <210> SEQ ID NO: 14
211 <211> LENGTH: 36
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Primer
218 <400> SEQUENCE: 14
219 gtttctcttt tgaacttctt cttaaaagaa ctttcc                               36
222 <210> SEQ ID NO: 15

```

RAW SEQUENCE LISTING

DATE: 10/08/2004

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TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

223 <211> LENGTH: 17
 224 <212> TYPE: PRT
 225 <213> ORGANISM: Artificial sequence
 227 <220> FEATURE:
 228 <223> OTHER INFORMATION: Peptide
 230 <400> SEQUENCE: 15
 232 Gln Pro Glu Ser Ser Phe Lys Met Ser Phe Lys Arg Glu Thr Lys Val
 233 1 5 10 15
 235 Leu
 239 <210> SEQ ID NO: 16
 240 <211> LENGTH: 17
 241 <212> TYPE: PRT
 242 <213> ORGANISM: Artificial sequence
 244 <220> FEATURE:
 245 <223> OTHER INFORMATION: Peptide
 247 <400> SEQUENCE: 16
 249 Gln Pro Glu Ser Ser Phe Lys Lys Lys Phe Lys Arg Glu Thr Lys Val
 250 1 5 10 15
 252 Leu
 256 <210> SEQ ID NO: 17
 257 <211> LENGTH: 37
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Artificial sequence
 261 <220> FEATURE:
 262 <223> OTHER INFORMATION: Primer
 264 <400> SEQUENCE: 17
 265 ccggtatgag aaaaagttaa aacgcaaggc agccttc 37
 268 <210> SEQ ID NO: 18
 269 <211> LENGTH: 39
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Artificial sequence
 273 <220> FEATURE:
 274 <223> OTHER INFORMATION: Primer
 276 <400> SEQUENCE: 18
 277 ggctgccttg cgtttaaact ttttctcata ccggaaagg 39
 280 <210> SEQ ID NO: 19
 281 <211> LENGTH: 18
 282 <212> TYPE: PRT
 283 <213> ORGANISM: Artificial sequence
 285 <220> FEATURE:
 286 <223> OTHER INFORMATION: Peptide
 288 <400> SEQUENCE: 19
 290 Asn Pro Phe Arg Tyr Glu Arg Lys Met Thr Pro Lys Ala Ala Phe Ile
 291 1 5 10 15
 293 Leu Ile
 297 <210> SEQ ID NO: 20
 298 <211> LENGTH: 18
 299 <212> TYPE: PRT
 300 <213> ORGANISM: Artificial sequence

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,787

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

302 <220> FEATURE:
 303 <223> OTHER INFORMATION: Peptide
 305 <400> SEQUENCE: 20
 307 Asn Pro Phe Arg Tyr Glu Lys Lys Phe Lys Arg Lys Ala Ala Phe Ile
 308 1 5 10 15
 310 Leu Ile
 314 <210> SEQ ID NO: 21
 315 <211> LENGTH: 39
 316 <212> TYPE: DNA
 317 <213> ORGANISM: Artificial sequence
 319 <220> FEATURE:
 320 <223> OTHER INFORMATION: Primer
 322 <400> SEQUENCE: 21
 323 gtgctgccgt taaaaagtgc aaacgcctgc ggtccaagg 39
 326 <210> SEQ ID NO: 22
 327 <211> LENGTH: 40
 328 <212> TYPE: DNA
 329 <213> ORGANISM: Artificial sequence
 331 <220> FEATURE:
 332 <223> OTHER INFORMATION: Primer
 334 <400> SEQUENCE: 22
 335 ggaccgcagg cgtttgaact ttttaacggc agcacagacc 40
 338 <210> SEQ ID NO: 23
 339 <211> LENGTH: 18
 340 <212> TYPE: PRT
 341 <213> ORGANISM: Artificial sequence
 343 <220> FEATURE:
 344 <223> OTHER INFORMATION: Peptide
 346 <400> SEQUENCE: 23
 348 Leu Val Cys Ala Ala Val Ile Arg Phe Arg His Leu Arg Ser Lys Val
 349 1 5 10 15
 351 Thr Asn
 355 <210> SEQ ID NO: 24
 356 <211> LENGTH: 18
 357 <212> TYPE: PRT
 358 <213> ORGANISM: Artificial sequence
 360 <220> FEATURE:
 361 <223> OTHER INFORMATION: Peptide
 363 <400> SEQUENCE: 24
 365 Leu Val Cys Ala Ala Val Lys Lys Phe Lys Arg Leu Arg Ser Lys Val
 366 1 5 10 15
 368 Thr Asn
 372 <210> SEQ ID NO: 25
 373 <211> LENGTH: 44
 374 <212> TYPE: DNA
 375 <213> ORGANISM: Artificial sequence
 377 <220> FEATURE:
 378 <223> OTHER INFORMATION: Primer
 380 <400> SEQUENCE: 25

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004
TIME: 11:46:12

Input Set : A:\3347-110 Sequence Listing CRF.TXT
Output Set: N:\CRF4\10082004\J509787.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:109; Xaa Pos. 14
Seq#:110; Xaa Pos. 14
Seq#:130; Xaa Pos. 4
Seq#:131; Xaa Pos. 3
Seq#:134; Xaa Pos. 5
Seq#:142; Xaa Pos. 4
Seq#:146; Xaa Pos. 4
Seq#:148; Xaa Pos. 6
Seq#:150; Xaa Pos. 6
Seq#:151; Xaa Pos. 3
Seq#:152; Xaa Pos. 5
Seq#:153; Xaa Pos. 4
Seq#:154; Xaa Pos. 3
Seq#:155; Xaa Pos. 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

TIME: 11:46:12

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:1496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0
L:1776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:1797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:0
L:1846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0
L:1968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:2031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:0
L:2106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:0
L:2127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
L:2155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0
L:2176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0
L:2197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0
L:2218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0